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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/064,445

07/15/2002

Amir Helzer

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11/13/2006

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EXAMINER

DU, THUAN N

ART UNIT

PAPER NUMBER

2116

DATE MAILED: 11/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/064,445

Applicant(s)

HELZER, AMIR

Examiner

Thuan N. Du

Art Unit

2116

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 July 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-52 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 25-29 is/are allowed.
- 6) ☒ Claim(s) 1-8, 12, 13, 17, 18, 20-24, 30-33, 36, 39-41, 44 and 47-52 is/are rejected.
- 7) ☒ Claim(s) 9-11, 14-16, 19, 34, 35, 37, 38, 42, 43, 45 and 46 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>10/16/02, 4/19/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-52 are presented for examination.

Specification

2. The disclosure is objected to because of the following informalities: The word "Figures" stands alone in page 36.

Appropriate correction is required.

Claim Objections

3. Claim 12 is objected to because of the following informalities: The phrase "he data requestor" should be -- The data requestor --. Appropriate correction is required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-8, 12, 13, 17, 18, 20-24, 30-33, 36, 39-41, 44 and 47-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admission of prior art and Vogley, U.S. Patent No. 5,572,722 (Vogley was submitted by applicant).

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6. Regarding claims 1 and 52, AAPA teaches a data requestor substantially as claimed comprising:

a clock signal generator for generating a clock signal [application's specification; pages 1-2, para. 0002];

a control signal generator for generating a control signal [application's specification; pages 1-2, para. 0002];

input sampling module receiving the clock signal and the control signal and being adapted to sample a data signal to obtain the requested data [application's specification; pages 1-2, para. 0002].

AAPA does not teach a skewed clock signal generator for generating a skewed clock signal, a skewed control signal generator for generating a skewed control signal, and sampling the data signal to obtain the requested data using the skewed clock signal and the skewed control signal.

Vogley teaches a data requestor comprising:

a skewed clock signal generator adapted to generate a skewed clock signal that is substantially equivalent to the delayed version of the original clock signal [col. 4, lines 55-63];

a skewed control signal generator adapted to generate a skewed control signal that is substantially equivalent to the delayed version of the original control signal [col. 5, lines 11-20];
and

a data storage for storing requested data read out from a synchronous data source using the skewed clock signal and the skewed control signal [col. 6, lines 22-63].

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of AAPA and Vogley because they both teach a system for reading out data from a synchronous data source. Vogley's teachings of using the skewed clock signal and the skewed control signal to read out data from a synchronous data source would increase the reliability of the system.

7. Regarding claim 2, Vogley teaches that performing at least one process operation on the requested data based at least in part on process information associated with the request data [col. 3, lines 39-42].

8. Regarding claims 3 and 4, Vogley teaches that the process information includes a destination of the requested data [col. 3, lines 39-42].

9. Regarding claim 5, both AAPA and Vogley do not teach decryption key for decrypting the requested data. However, one of ordinary skill in the art would have recognized that if the requested data is encrypted, the system obviously include decryption key for decrypting the data.

10. Regarding claims 6-8, claims 6-8 are directed to apparatuses implementing the data requestor of claim 1. As stated above, AAPA and Vogley teach the invention substantially as set forth in claim 1. At the time of the invention, one of ordinary skill in the art would have readily recognized that AAPA and Vogley may also teach the implementations of claim 1 as set forth in claims 6-8. As such, claims 6-8 are rejected under same rationale with respect to claim 1.

11. Regarding claim 12, AAPA teaches that the requestor is a memory controller and the data source is a synchronous memory device [application's specification; para. 0002].

12. Regarding claims 13, 17, 18 and 20-24, they do not teach or further define over the limitations recited in the rejected claims above. Therefore, claims 13, 17, 18 and 20-24 are also

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rejected as being unpatentable over AAPA in view of Vogley for the same reasons set forth in the rejected claims above.

13. Regarding claims 30-33, 36, 39-41, 44 and 47-51, since they recite method of operating of the apparatus defined in the apparatus claims, they are rejected accordingly based on the rejection of the apparatus claims.

Allowable Subject Matter

14. Claims 25-29 are allowed.

15. Claims 9-11, 14-16, 19, 34, 35, 37, 38, 42, 43, 45 and 46 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan N. Du whose telephone number is (571) 272-3673. The examiner can normally be reached on Monday-Friday: 9:30 AM - 6:00 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached at (571) 272-3676.

Central TC telephone number is (571) 272-2100.

The fax number for the organization is (571) 273-8300.

17. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

TD
November 9, 2006



TUAN N. DU
PRIMARY EXAMINER